

## PATENT COOPERATION TREATY

From the  
INTERNATIONAL PRELIMINARY EXAMINING**PCT****NOTIFICATION OF TRANSMITTAL OF  
INTERNATIONAL PRELIMINARY  
EXAMINATION REPORT**

( PCT Rule 71.1 )

To:

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Seoul 135-935, Republic of KoreaDate of mailing  
(day/month/year) 17 DECEMBER 2004 (17.12.2004)Applicant's or agent's file reference  
M03IN011PCT**IMPORTANT NOTIFICATION**

International application No.

**PCT/KR2003/001786**

International filing date (day/month/year)

**01 SEPTEMBER 2003 (01.09.2003)**

Priority date (day/months/year)

**04 SEPTEMBER 2002 (04.09.2002)**

Applicant


**NYTEL CO., LTD et al**

1. The applicant is hereby notified that International Preliminary Examining Authority transmits herewith the international preliminary examination report and its annexes, if any, established on the international application.
2. A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices.
3. Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report (but not of any annexes) and will transmit such translation to those Offices.
4. **REMINDER**  
The applicant must enter the national phase before each elected office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in some Offices) (Article 39(1)) (see also the reminder sent by the International Bureau with Form PCT/IB/301).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details in the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide.

Name and mailing address of the IPEA/KR



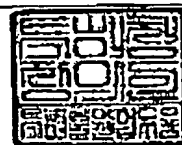
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# PATENT COOPERATION TREATY

# PCT



## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference M03IN011PCT	<div style="display: flex; justify-content: space-between;"> <div>FOR FURTHER ACTION</div> <div>See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)</div> </div>	
International application No. <b>PCT/KR2003/001786</b>	International filing date (day/month/year) <b>01 SEPTEMBER 2003 (01.09.2003)</b>	Priority date (day/month/year) <b>04 SEPTEMBER 2002 (04.09.2002)</b>
International Patent Classification (IPC) or national classification and IPC  <b>IPC7 H04Q 7/24</b>		
Applicant  <b>NYTEL CO., LTD et al</b>		

1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.
2. This REPORT consists of a total of 3 sheets, including this cover sheet.
- ☒ This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).
- These annexes consist of a total of 8 sheets.

3. This report contains indications relating to the following items:
- I ☒ Basis of the report
  - II ☐ Priority
  - III ☐ Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
  - IV ☐ Lack of unity of invention
  - V ☒ Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
  - VI ☐ Certain documents cited
  - VII ☐ Certain defects in the international application
  - VIII ☐ Certain observations on the international application

Date of submission of the demand  <b>25 FEBRUARY 2004 (25.02.2004)</b>	Date of completion of this report  <b>13 DECEMBER 2004 (13.12.2004)</b>
Name and mailing address of the IPEA/KR  Korean Intellectual Property Office 920 Dunsan-dong, Seo-gu, Daejeon 302-701, Republic of Korea Facsimile No. 82-42-472-7140	Authorized officer OH, Je Uk Telephone No. 82-42-481-8222 

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/KR2003/001786

## I. Basis of the report

## 1. With regard to the elements of the international application:\*

- ☐ the international application as originally filed
- ☒ the description:  
pages 1-24, as originally filed  
pages \_\_\_\_\_, filed with the demand  
pages \_\_\_\_\_, filed with the letter of \_\_\_\_\_
- ☒ the claims:  
pages \_\_\_\_\_, as originally filed  
pages \_\_\_\_\_, as amended (together with any statement) under Article 19  
pages \_\_\_\_\_, filed with the demand  
pages 25-32, filed with the letter of 08/11/2004
- ☒ the drawings:  
pages 1/6-6/6, as originally filed  
pages \_\_\_\_\_, filed with the demand  
pages \_\_\_\_\_, filed with the letter of \_\_\_\_\_
- ☐ the sequence listing part of the description:  
pages \_\_\_\_\_, as originally filed  
pages \_\_\_\_\_, filed with the demand  
pages \_\_\_\_\_, filed with the letter of \_\_\_\_\_

## 2. With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.

These elements were available or furnished to this Authority in the following language English which is

- ☐ the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).
- ☒ the language of publication of the international application (under Rule 48.3(b)).
- ☐ the language of the translation furnished for the purposes of international preliminary examination (under Rules 55.2 and/ or 55.3).

## 3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:

- ☐ contained in the international application in written form.
- ☐ filed together with the international application in computer readable form.
- ☐ furnished subsequently to this Authority in written form.
- ☐ furnished subsequently to this Authority in computer readable form.
- ☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
- ☐ The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

4. ☒ The amendments have resulted in the cancellation of:

- ☐ the description, pages \_\_\_\_\_
- ☒ the claims, Nos. 1, 2, 3, 4, 11, 12
- ☐ the drawings, sheets \_\_\_\_\_

5. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).\*\*

\* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this opinion as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17).

\*\* Any replacement sheet containing such amendments must be referred to under item I and annexed to this report.

## INTERNATIONAL PRELIMINARY EXAMINATION

International application No.

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## V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

## 1. Statement

Novelty (N)	Claims	5, 6-10, 13-15	YES
	Claims	NONE	NO
Inventive step (IS)	Claims	NONE	YES
	Claims	5, 6-10, 13-15	NO
Industrial applicability (IA)	Claims	5, 6-10, 13-15	YES
	Claims	NONE	NO

## 2. Citations and explanations (Rule 70.7)

## 1. Reference is made to the following documents:

D1 : JP 2001-337887 A (2001.12.07)

D2 : US 2001/0024444 A (2001.09.27)(new citation)

## 2. Novelty(N)

The subject matter of claims 5,6-10,13-15 is novel under Article 33(1) and (2).

## 3. Industrial Applicability(IA)

Claims 5,6-10,13-15 have industrial applicability under Article 33(4), because the subject matter claimed can be made or used in industry.

## 4. Inventive steps(IS)

Claims 5,6-10,13-15 relate to a system and method for data conversion transmission in which, if an information provider uses an input form provided from a management server to input information through a wire or wireless terminal device, the information inputted from the management server is converted into a format adaptive to be provided for the wire or wireless terminal device for transmission such that one input form is used to provide information desired by a person using various kinds of wire and wireless terminal devices.

Whereas, D1 discloses the mobile intranet system comprising the web server which is the object for receiving HTML documents; the means for managing the HTML documents; the means for obtaining the HTML documents accumulated in the web server; the means for converting said HTML document and the HTML documents obtained within the upper limit of the obtained hyperlink hierarchy number into the documentary form suitable for the mobile phone terminal for web.

D2 discloses a content data acquiring system containing a gateway which is connected with a portable terminal and servers, and transfers a content data request from the portable terminal to servers based on the content data request, and transfers a desired content data file from servers to the portable terminal.

It is apparent that no inventive steps are required for a person having ordinary skill in the art to combine D1 and D2 to arrive at the present invention as claimed in claims 5,6-10,13-15.

Therefore, claims 5,6-10,13-15 lack an inventive step(Article 33(3)).

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DT01 Rec'd PCT/PT 01 MAR 2005

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## CLAIMS:

1. (Deleted)

2. (Deleted)

3. (Deleted)

4. (Deleted)

5  
10 5. (Amended) A data conversion and transmission system comprising:

wire and wireless terminal clients;

a wire server connected with the wire terminal client;

a wireless server connected with the wireless terminal

15 client; and

a data server and a data conversion and transmission server shared by the wire and wireless servers,

wherein the data server comprises an input form DB for storing an input form for receiving information from  
20 information providing wire and wireless terminal clients; an input information DB for storing information provided through the input form; a member information DB for storing user information provided at the time of member registration; and  
a wireless terminal information DB for storing information on  
25 a mobile specification and a platform of a wireless terminal used by a registered member,

wherein the wire and wireless server comprises a member management module for registering a user that desires

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information provision or information access as a member such  
that information on the registered user is stored and managed  
in the member information DB; a verification module for  
verifying whether or not the user connected to the wire or  
5 wireless server is the registered member; an information  
input management module for extracting an appropriate input  
form from the input form DB by requests of the information  
providing wire and wireless terminal clients to provide the  
extracted input form, and storing information provided from  
10 the information providing wire and wireless terminal clients  
in the input information DB; and a control module for  
controlling a mutual operation among respective modules, in  
which the data conversion and transmission server is  
controlled to store the information provided from the  
15 information providing wire and wireless terminal clients in  
the input information DB, or in which if the data conversion  
and transmission server converts extracted information  
adaptively to information accessing wire and wireless  
terminal clients by requests of the information accessing  
20 wire and wireless terminal clients, the converted information  
is transmitted to the information accessing wire and wireless  
terminal clients, and

wherein the data conversion and transmission server  
stores, in case the information input management module  
25 transmits the information provided from the information  
accessing wire and wireless terminal clients, the transmitted  
information in the input information DB, and converts, in  
case information access is requested by the information

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accessing wire and wireless terminal clients, the stored  
information into a format adaptive to the information  
accessing wire and wireless terminal clients specification  
(protocol) and a platform to provide the converted  
5 information.

6. (Amended) A data conversion and transmission  
method applied to a data conversion and transmission system  
comprising:

10 wire and wireless terminal clients;  
a wire server connected with the wire terminal client;  
a wireless server connected with the wireless terminal  
client; and

a data server and a data conversion and transmission  
15 server shared by the wire and wireless servers,

wherein the data server comprises an input form DB for  
storing an input form for receiving information from  
information providing wire and wireless terminal clients; an  
input information DB for storing information provided through  
20 the input form; a member information DB for storing user  
information provided at the time of member registration; and  
a wireless terminal information DB for storing information on  
a mobile specification and a platform of a wireless terminal  
used by a registered member,

25 said method comprising the steps of:

in correspondence to information provided depending on  
requests of information providing wire and wireless terminal  
clients for information provision, extracting from the input

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form DB and transmitting an input form requested to be applied to the information providing wire and wireless terminal clients, and storing the information provided through the input form in the input information DB;

5 extracting terminal device specification (protocol) and a platform information corresponding to the information accessing wire and wireless terminal clients from the wireless terminal information DB, and transmitting the information to the data conversion and transmission server by  
10 the wire and wireless servers if the information accessing wire and wireless terminal clients for information access are connected with the wire and wireless servers;

extracting the requested information from the input information DB by the data conversion and transmission  
15 server;

converting the extracted information into a format corresponding to the transmitted terminal device specification (protocol) and a platform information by the data conversion and transmission server; and

20 transmitting the converted information to a connected terminal device.

7. The data conversion and transmission method of claim 6, wherein the input form comprises URL information of  
25 the wire and wireless servers.

8. The data conversion and transmission method of claim 6, wherein the information provided from the



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information providing wire and wireless terminal clients has information on a region for which the information is provided.

9. The data conversion and transmission method of  
5 claim 6, wherein in case the input form corresponding to the information provided from the information providing wire and wireless terminal clients does not exist, information to be inputted by the information providing wire and wireless  
10 terminal clients is analyzed such that the input form is created to be stored in the data server and simultaneously to be provided for the information providing wire and wireless terminal clients.

10. The data conversion and transmission method of  
15 claim 6, wherein the information provided from the information providing wire and wireless terminal clients is classified and stored by a member, and is classified by the information kind or an information accessing region to be stored in the data server.

20

11. (Deleted)

12. (Deleted)

25 13. The data conversion and transmission method of claim 6, wherein the converted format comprises HTML or XML format in case of the wire terminal client, and comprises WML, HDML, WinCE or JAVA format in case of the wireless terminal

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client.

14. The data conversion and transmission method of  
claim 6, further comprising the step of checking whether or  
5 not the connected wire and wireless terminal clients are  
supported on basis on the terminal device information if the  
terminal device information on the information accessing wire  
and wireless terminal clients is transmitted to the data  
conversion and transmission server.

10

15. The data conversion and transmission method of  
claim 6, wherein after information is provided through the  
input form to be stored in the data server, an input list of  
the provided information is displayed, and the provided  
15 information is served or not served depending on a selection  
of the information providing wire and wireless terminal  
clients.

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